

Emerging Technology for Crop Management Solutions

Erin Abegg
A & L Analytical Labs- Memphis

What is AgFleet?

➤ AgFleet is an innovative, easy to use, modular web-based suite of GIS applications to aid in the practical and efficient management of cropland

Major Impacts of AgFleet on You and Your Clients

- Efficiency and Ease of Use
- Technology Solutions
- Evolving Systems

Efficiency- Ease of Use

Streamlines various tasks

- Drawing boundaries from ortho images online
- Managing boundaries and sample points
- Soil sample information sheets available
- Lab merges soil sample data with points/maps automatically
- Generates all standard formats for VRT application maps
- All crops, hormones, products are in the system and are featured as user friendly "Drop-Down" boxes

Efficiency and Ease of Use

- ➤ Easy Maintenance
 - Software updates are automatic
 - Consistent design throughout modules
 - Complimentary PDA software for mapping boundaries and sample points, as well as for recordkeeping, scouting and groundtruthing
 - Email/text message updates available

Technology Solutions

- Promotes Consultant client involvement
- Web based solution- convenient for everyone to use at any time
- Modular design allows introduction to new features at user(s) own pace
- GIS solution that allows you to stay ahead of your competition

Evolving Systems

- Aerial Imagery- John Deere OptiGrow
- Recordkeeping
- Yield Data Processing
- Zone Management
- New data sources- John Deere SIS
- System enhancements from user requests

www.agfleet.com



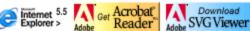




Before Logging in, please carefully read the Terms and Conditions of use agreement for the AgFleet web site. By logging in your user name and password, you agree to be bound by the terms and conditions of the agreement.

AgFleet Requirements:

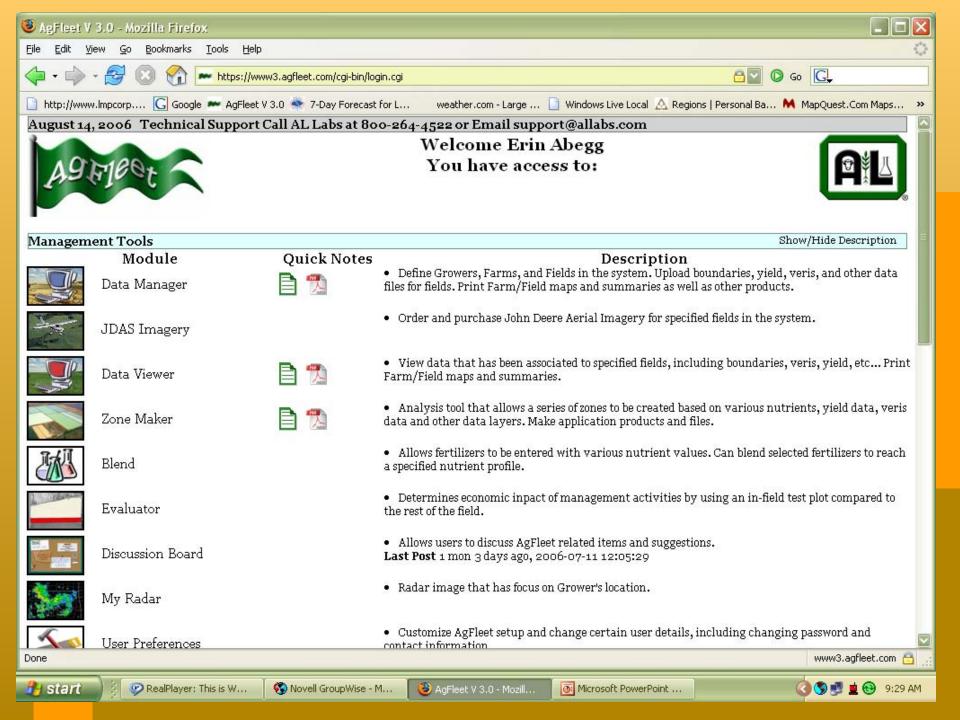












Main Modules of AgFleet

- Data Manager
- Field Sampler
- JDAS Imagery
- Zone Maker
- Blend
- RecordKeeper
- PrePlanner
- Irrigation Scheduling

Data Manager: Farm/ Field Map

A&L-A&L Demo

Data Manager Farm-Field Map

Field(s): RonkKom

Grower: ALD-Doug Time Farm: Doug Time

Copyright® 2004 A&L Analytical Labs Inc. All Rights Reserved.

Farm: Doug Time Acres: 92.74



Satellite Imagery Date: 2004-09-27 ISSUED: 3:14pm EST Date 6, 2004 A Product of Agent Version 3.00

Data Manager Farm-Field Map Grower: Demo Grower Field(s): Demo Cotton Pivot, gregs north pivot Farm: Demo Farms Acres: 405.43 Beans low Cotton *NOTE: The field labels above are actual FIELD NAMES. 四性 ISSUED: 6:16pm EDT Aug14, 2006 A Product of Agreet Version 3:00 Copyright® 2006 A&L Analytical Labs Inc. All Rights Reserved.

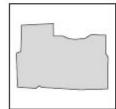
RecordKeeper Action Summary



Action Summary

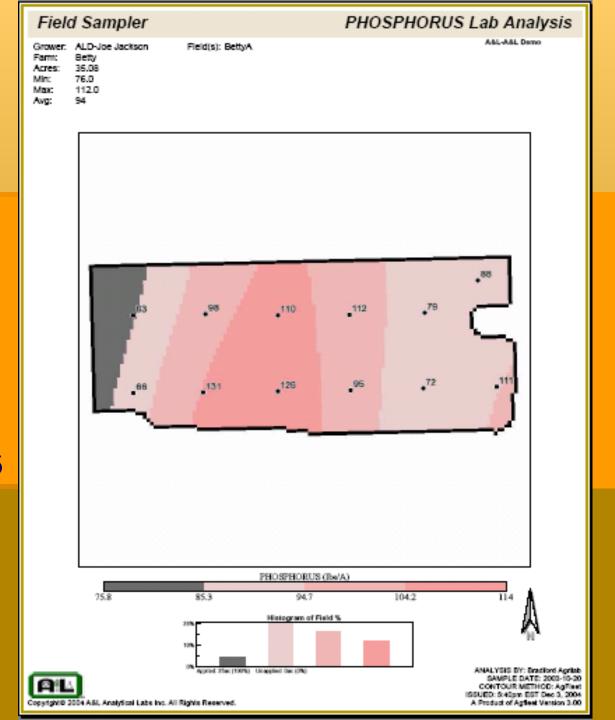
A&L Demo ALD-John Smith Beaty Big Field Beaty 60.33 Acres Jan 1, 2004 - Feb 25, 2005

Crop Total Cost Average Cost/Acre Cotton \$10100.83 \$167.43

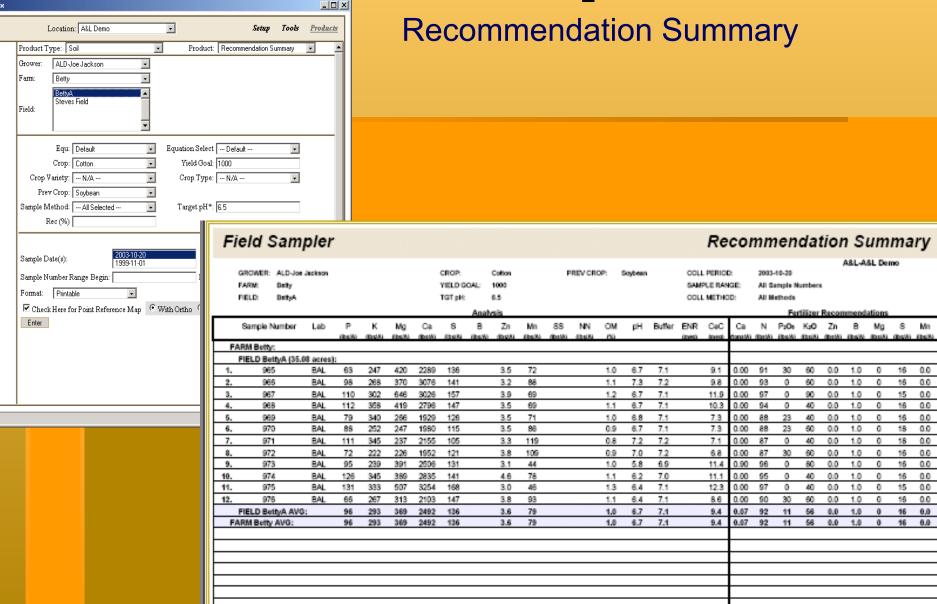


21, 2004	Private - Added by gwoods 20040529	\$130.54/Acre
Action: Planting	Acres: 60.33	\$54.71/Acre
5599		\$3300.68
Planting Type:	Normal	220
Crop:	Cotton	++
Variety:	Bollgard/Roundup Ready - Stoneville 5599BGRR	\$2642.45
Planter Type:	Vacuum	##:
Planter Rows:	12	22
Row Spacing:	38"	87
Seed Population:	40000 Seeds/Ac	22
Seed Treatment:	Cruiser 5FS	\$460.92
	Delta Coat AD	\$197.28
Action: Application	Acres: 60.33	\$61.33/Acre
80-40-100		\$3700.08
Fertilizer Method:	Surface - Broadcast	\$211.16
Fertilizer Type:	N 80 Lb/Ac, P 40 Lb/Ac, K 100 Lb/Ac, S 10 Lb/Ac, B 1 Lb/Ac, Zn 2 Lb/Ac	\$3488.92
Fertilizer Amount:	466.00 Lb/Ac	**
Action: Application	Acres: 60.33	\$8.94/Acre
Cotoran		\$539.11
Herbicide Method:	Surface - Broadcast	22
Herbicide Type:	Cotoran-4L (01812-0043900000)	\$539.11
Herbicide Amount:	2.00 Pt/Ac	22
Action: Application Acres: 60.33		\$2.07/Acre
Cutworn		\$124.77

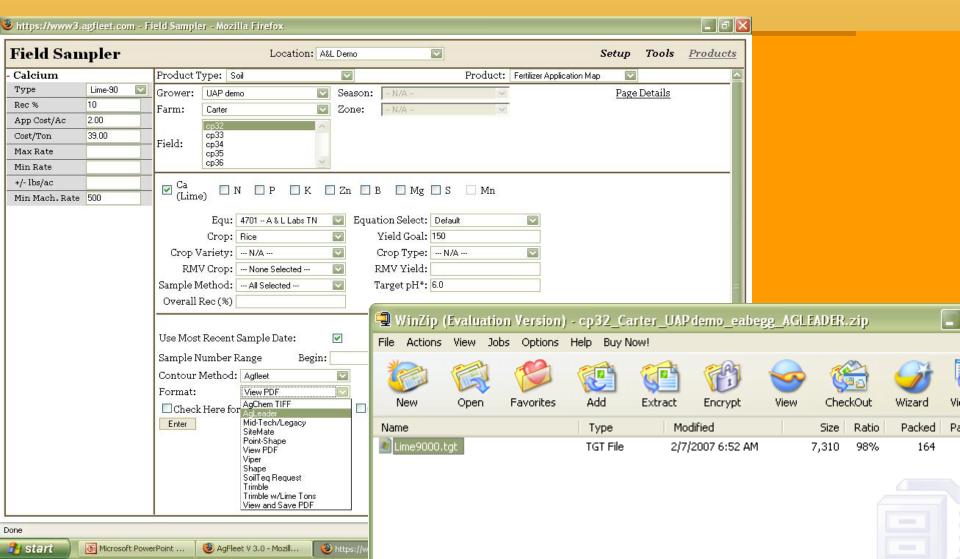
Field Sampler Lab Analysis Map for Phosphorus



Field Sampler



Field Sampler VRT Fertilizer File



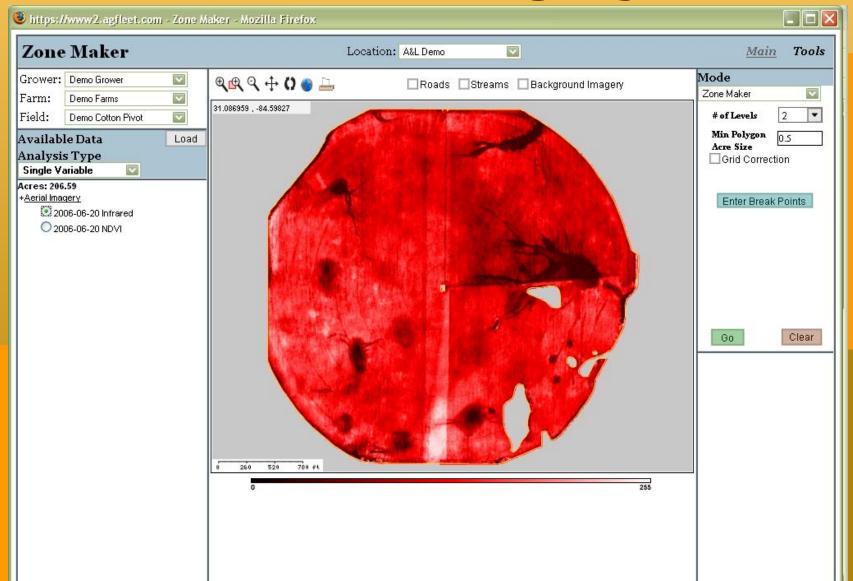
Supported Controller Formats:

- Satloc- Shape and PMD
- Trimble AgGPS
- New Leader/ Ag Leader- JD Dry
- John Deere- Spray Star, GreenStar I and II
- All third party shape files
- Falcon & Falcon II- AgChem TIFF, SoilTeq csv-ini
- AgLeader
- Mid-Tech Legacy
- Pocket PC- Site Mate
- Viper (Grid polygons) and Viper-2 (contour polys)

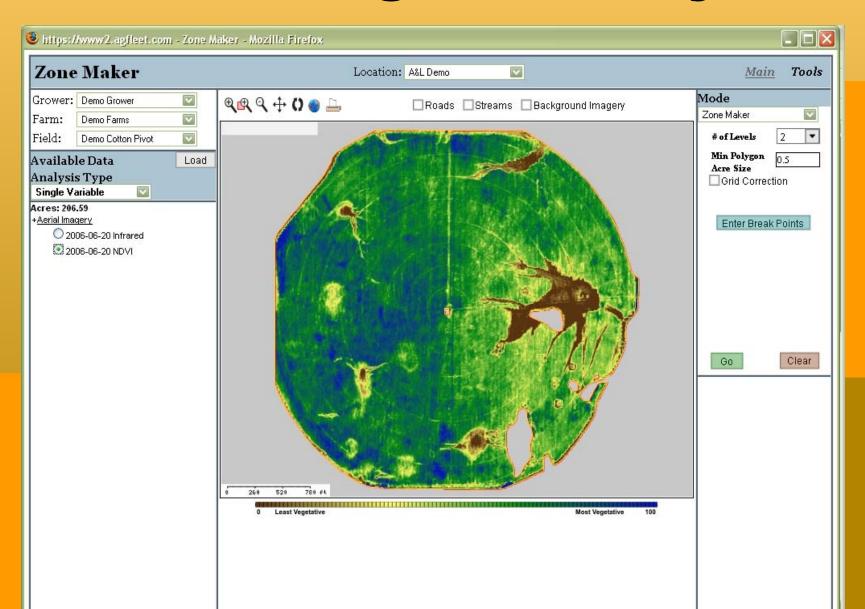
Other Features of Field Sampler

- Set re-sampling date reminders
- Custom CSV definition
- Custom Shape file definition
- Mass soil sample editor and manager
- Nematode and Plant Tissue sample management
- Multi year soil analysis trend
- Ability to create elemental, fertilizer, removal, and condensed lime application maps
- Soil nutrients and soil properties report
- Representative Summary

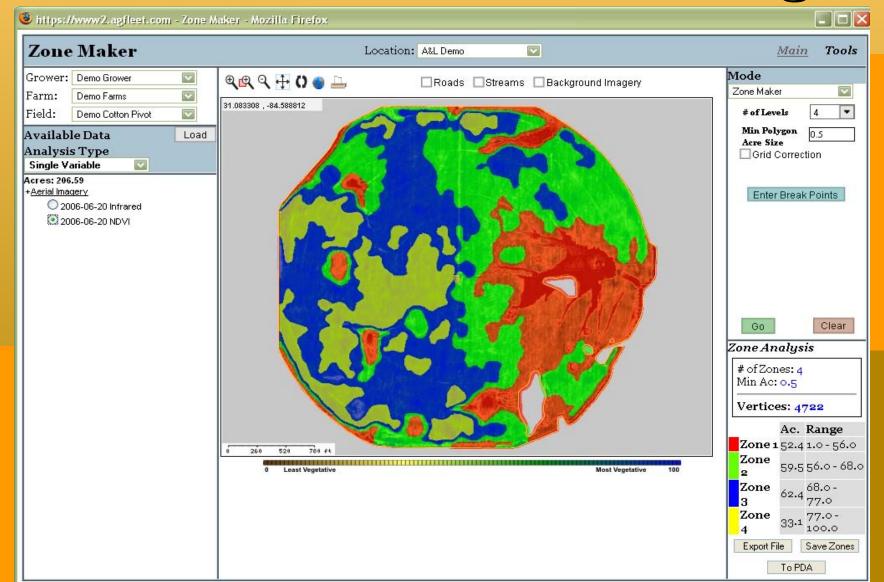
Infrared Data Layer-JDAS Imagery



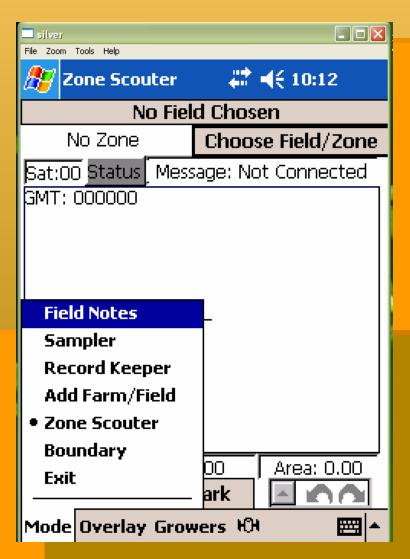
NDVI Image Data Layer

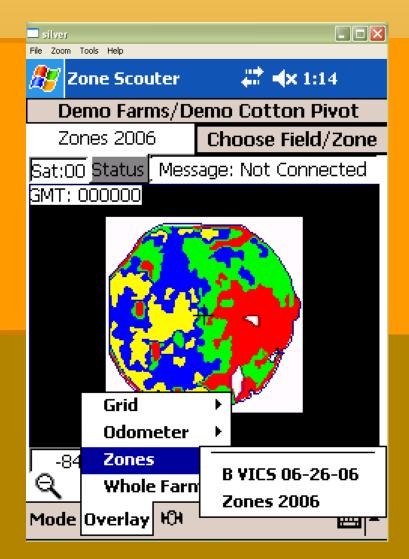


Making Zones in Zone Maker from the NDVI Aerial Image

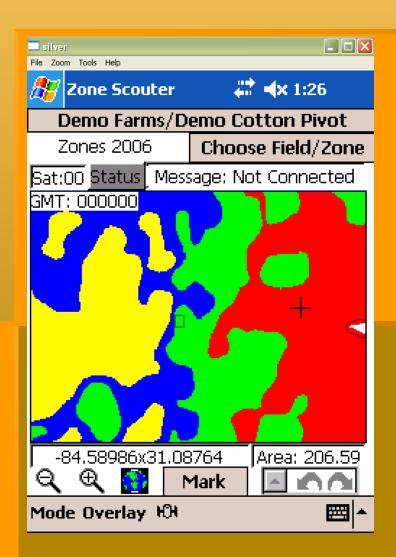


Send the zone map to the PDA to Ground Truth fields



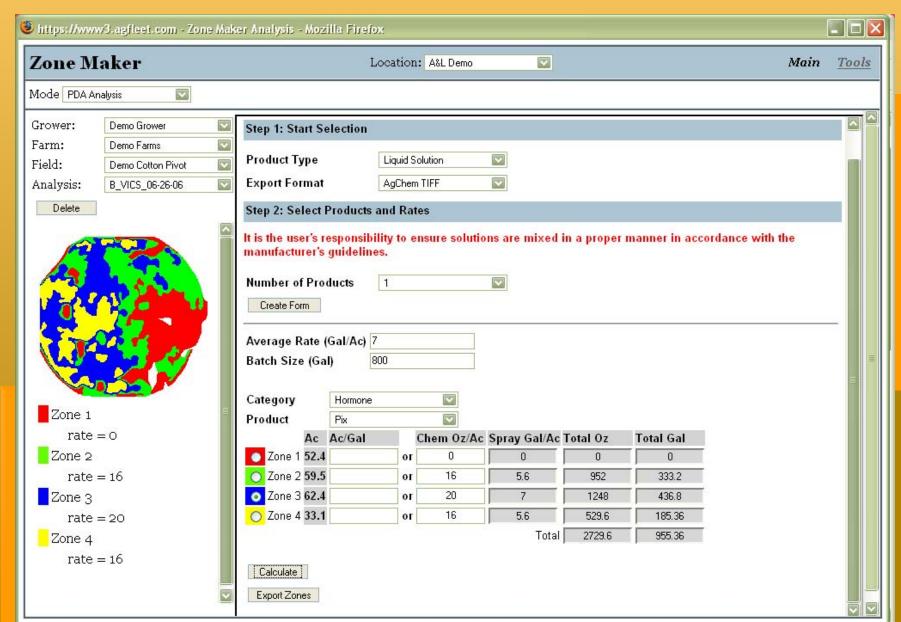


Send the zone map to the PDA to Ground Truth fields



silver File Zoom Tools Help			
Zone Scouter	## 4 x 1:27 ⊕		
Zone: 1			
	▼		
\/ \/	/\		
plant_height			
rate			
Value:			
0			
OK Clear	Cancel		
	<u> </u>		

Create your VRT File



"Agfleet has made the process of collecting samples, filing results, scheduling future work, and prescription generation automatic. This leaves me more time to produce useable output and less time on getting the sample data "into the system". It has truly made the process from sample collecting to application seamless. And easy. And fast!"

Bill Brooks
Mid-South Farmers Cooperative
Alamo, TN

Time is Money, Right? Or is it Something Else?



"I've got an 82 page report set to print, paper and ink loaded, and I'm going to bed. I've got bowhunting to do tomorrow (I didn't see the woods until the middle of December last year because I was too busy doing reports and importing data). Middle of November this year and I'm almost through; with more acres to scout this year than last year."

Andy Graves
Graves Agronomy Service, MS



www.allabs.com